



Teacher Research Academy (TRA)

Energy & Environmental Technology

The Energy and Environmental Technology Research Academy prepares teachers to conduct research and guide student research projects in the fields of climate, carbon, and energy. The TRA program offers four levels of instruction. Each level builds on the knowledge and experience of the preceding level progressing the teacher from novice to mastery. Materials are aligned with the California and National Science Standards. Instruction provides teachers with a context to explain to students how science is applied, and includes hands-on activities using the science and technology of the discipline, lectures by practicing scientists, tours of research facilities, and opportunities to network with researchers and peers.

WHEN:

June 21 - June 23 Level - 1: Three days of instruction. Participants gain skills and knowledge generally consistent with the requirements to teach advanced middle and high school science.

June 28 - July 2 Level - 2: Five days of instruction. Participants gain skills and knowledge generally consistent with the requirements to teach advanced placement and college preparatory courses.

July 12 - July 16 Level - 3: Five days of instruction preparing teachers to work in a mentored research experience.

June 15 - Aug 8 Level - 4: Eight-week mentored research experience. Teachers receive \$4,000 stipend. Internships are completed in the year following completion of Level III.

WHERE: Lawrence Livermore National Laboratory, Livermore, CA

REGISTRATION: Register on-line at <http://education.llnl.gov/academies>

REGISTRATION FEE: \$20.00 for each registration.

WHAT TEACHERS GET:

- Increased understanding of science and technology.
- Experience using scientific equipment to perform standards aligned experiments.
- Preparation to guide student research projects.
- Instruction binder with classroom activities.

CONTACT: Richard Farnsworth, Science Education Program, email: farnsworth1@llnl.gov

MASTER OF SCIENCE IN EDUCATION:

Participants in the Teacher Research Academy can earn graduate course credit through the California State University (CSU) East Bay toward a Master of Science in Education degree, Curriculum Option, or extension credit.

PLEASE FORWARD TO INTERESTED TEACHERS